BRAINS MIXED WITH MORTAR IN NEW UNION STATION



STURDY SUPPORTS OF NEW BUILDING.

Foundations of the Union Station, showing the retaining walls in process of construction and the heavy piles of masonry.



THE APPROACH TO THE TUNNEL

Deep cut through populous section of the city at First and D Streets southeast, where the face of the earth is being changed.

Foundations of Great Building Deep Sunk less speed," and the contractors have sides of the cut, which will be bridged realized this quite. Every stone of the for the passage of traffic at the intersecin the Earth, Whence Massive Piles of Masonry Are Now Emerging.

new Union Station. The engineeroblems were difficult enough at the first, turning, as they did, upon an almost complete change in the topog-larhy of a populous section of a great

importance, run on temporary tracks and the stone piers, upon which the up and down the cuts, great steam shovels swing ponderously from

HERE will be plenty of gray mat- | had enough to try the patience and tes ter mixed with the mortar of the the ingenuity of the ordinary man. Also there has been some matters of money Not Built on Sands.

The initial difficulty was at the station The great structure of white granite that is to be erected requires a mas city. They have become increasingly more difficult as the work advanced, and the discovery of quicksands and train sheds for trains from the three impediments has delayed and returned the architects and contractors of surrounding country and the approaches, must be thirty feet below the level of just now a busy, if somewhat uncouth appearance: In several sections great values. The retaining walls that gaps are being cut through the streets, wide areas are being leveled, busy little engines, panting and puffing with importance, run on temporary tracks.

foundations has been criticaly inspect-ed, and every barrel of cement watched Work or the tunnel has foundations has been critically inspected, and every barrel of cement watched over with jealous care. Box cars run on inclined tracks to the level of the upper floors and from these the cement ture of time, money, and energy. To for the foundations and the great steel this the cut is simply the approach, debeams that are to give them additional signed to give the Pennsylvania Railway

The Obstacles Surmounted.

One of the troubles of the work was encountered when the excavation of the expected to have for his very own.

dent of the work, and one which has lit- | youd it in a setting adapted to its

strength are lowered by cranes into the trains access to the eastern side of the pit where the men are working. on their lower levels.

Plaza Means Much Work.

One of the problems that remain is the city was begun. The right of way nearly ten acres in extent, which is to crossed the water and sewer mains of form the approach to the station. In the city system, and ten donkey engines order to make the plaza level conform to had to be employed to keep the trenches from being flooded. They were at it night and day, and are still, consuming many hundreds of tons of coal and eat-to the base the plaza level contour to that of the building it will be necessary five feet. The beauty that will be added to the station by the plaza will unquesing up profits the contractor probably tionably reward all the efforts that are put upon it. Not only will the broad The discovery of quicksands has for- expanse of green be beautiful in itself, tunately been only an occasional inci- but it will frame the white palace be-

esthetic needs.

Immense amounts of work have al-

There is the more truth in this from the fact that the laborers for the most part are natives of sunny climes. Italshovels at work day and night.

Sound Is an Annoyan .

The sound has been a perpetual annoyance to the people of the neighborhood. Plunging into the hillside ahead the shovel would scoop up enough earth approaches in the northeast section of the construction of the elliptical plaza, by the dummy, and two or three efforts the city was begun. The right of way nearly ten acres in extent, which is to on the part of the blg machine would to fill one of the little flat cars pulled suffice for a trainload. Dragging the cars behind it, the engine goes strug-gling up the incline, where larger cars, behind larger engines, are always waiting to receive their loads. The incessant ring of hammer and

chisel on masonry is another of the neighborhood trials in sections where the work is in progress. There is music of a kind in the sound, but it is not just exactly of the type to soothe one wide areas are being leveled, busy little engines, panting and pulling with estone piers, upon which the stone piers had to take into account to the product of the charge of the charge of the construction from the country to the north add the part and the stone piers had to take into account to the product of the presented piers of the charge of the construction from the country to the north add to permit the all open the stone with the stone stone of the charge of the construction from the country to the north add the part and the stone piers had to take into account to the product the country to the north add the part and the country to the north add the part and the stone piers had to take into account the country to the north add the part and the stone piers had to take into account the country to the north add the part and the stone piers had to take into account the piers and the part and the stone piers an

Great Hills Fall Before the Onslaught of Steam Shovels, to Make Clear the Way for the Trains of the Future.

station and asked the assistance of the dress. The victims were always too sergeant on duty. Their request was densely ignorant to put in motion the made through an interpreter, for they machinery of the law that would have were able themselves to speak scarcely a word of English.

It appeared they had remain an obscure small rooms in a house in an obscure quarter of the city, for which they and quarter of the city, for which they are the city for which they are the city for the city of t paid a week's rental in advance. They have come here from other parts of the were shrewd enough then to refuse to country, some skilled and high-salaried yield to further extortion, and the other men whose advent is a distinct gain men on the premises had determined to The smaller fry contribute their mites get rid of them. They effected this by The total is a great gain. When it is waiting until the man and girl were considered that this money weekly rewaiting until the man and girl were out and then locking the doors to their rooms. When the unfortunates returned it was only to be teld that if the considered that this money weekly replenishes the coffers of merchants who might not otherwise be making an elab-

compelled the knaves to disgorge.

Much Money Disbursed.

One of the benefits of the work to the It appeared they had rented a pair of city has been the money turned loose each week among the merchants of Washington. Thousands of employes just exactly of the type to socide out to rest in the early watches of the morning. Much of the profanity turned deavored to come in they would be thrown out into the streets, and that if they endeavored to come in they would be thrown out into the streets, and that a worse fate would very likely befall the postulations. With

SOME PERTINENT OBSERVATIONS MODERN PHYSICAL CULTURE

Bu WILLIAM H. MACDONALD,

The Famous Baritone of the "Bostonians."

William H. MacDonald, the famous baritone of the "Bostonians," has within the past few years given much time and study to the various systems of physical culture as practuced in this country and in Europe. Since and during his college days he has always been athletically inclined, and while studying music and art in Haly in his youth, participated with success in many important Roman games, winning several redals. Mr. MacDonald, now "in the full strength of years," and approaching the afternoon of life, owes his youthful vitality and good health to the right way of living and the love of out-door sports and ex-William H. MacDonald, the famous the love of out-doer sports and ex-creise. He has written some obser-vations on physical culture, with suggestions, especially for The Times, and they appear here today for the first time in any paper.

cular, and other, on the same subject, can be condensed into a few simand producer. For, in spite of the many silly fads and extremes-and numerous "fakes"-physical culture is, as it always hash and improving bad health. The to be cured of disease of various kinds, purport of this article is not to show will find some of the sanitariums of in two days or how an imbecile can turn into a Plato in one week. Nor physical movements, be cured and be-

At the same time, in not endeavoring known, to show how these miracles can be accomplished by so-called physical culture. I shall not try to disprove the theories set forth by men whose business it is to do these things. For some of those very "theories" would be excellent aids to right living if reduced to a an untroubled conscience, I lay before

these who take up various forms of phy-

In short, moderation in physical culture is as important as it is in anything Moderation Essential.

I have elaborated on this point, be cause I think over-enthusiasm is the little or no good, chief drawback and earliest pitfall in A movement ti

the pursuit of physical culture.

It is my purpose to lay before the reader a few simple, easily mastered and applied rules of common sense living and of exercising that may be of my purpose who might.

Exercise No. 1.

Bringing into play almost every present who might value to the busy person who might be able to devote the little time neces-sary in following these rules, to become generally stronger and to feel better. There is perhaps no "system" that is advertised in this country that I have not taken up and given a fair, intelligent and thorough trial. I have also experimented and studied various systure "systems," and much of tems in Europe notable for the names the "literature," magazine, cir- of the originator of the particular school, and for the exorbitant prices charged for "learning" them. Many of these systems had considerable merit; ple, practical rules for those who almost all of them had some good care to indulge in this health adjunct points, and none were exactly harmful,

'professor's"rates. specific training, there are many schools has been, if exercised moderately and and systems of merit both in this counintelligently, a means of retaining good try and Europe. The person who wants Scotland and Switzerland, where they combine moderate physical culture, of a specific and also a general nature with sensible living, together with in shal! I attempt to prove that a dying telligent medicinal care, productive of consumptive can, by means of a few better results than from any other one thing I know of-from physical culture and Christian Science to the most mod-"othology" medicine has

System Is Eclectic.

The suggestions that follow are the result of all the "systems" I have investigated—and paid for. For this latter rea-son, and because of the fact that I claim breathe as "deep as your toes." It is reduce his weight, especially abdomen. In one many will recognize president Roosevelt's strenuous "kickam writing under a cloud. And so with drawn and deep. Do this with short it is strenuous, try it. The Times readers these few suggestions The one great harmful tendency with that have the advantage of not being that follows breathe in the same able to do harm, if they do not ac-complish some good. I honestly believe, to the side, lift them gradually, slowly, Lie flat on your bark on the bed, or ders far back, keep the chin in, the ab-

proved—if it is already bad—your this for about one minute, muscles strengthened, and your general Exercise No. health better.

The best time to do these few and simple movements is in the morning on It is best to exercise nude. Open the window wide. There is no danger of catching cold, for the exercises are brisk and spirited. For, if they are listless, they will accomplish

vantages of half dozen others, which is an "eye opener" and a splendid circu-

Bringing into play almost every muscle, and inducing all-around circula-

Stand erect, back to the wall, about a foot and one-half from it. Knees absolutely stiff; raise hands above head, elbows stiff, reaching as high in the air as possible, and keeping feet squarely on the floor. When you think you have reached as high as possible, try to reach "a little higher." With knees still stiff, feet on the floor, hands upstretched as far as possible, bend the waist only, touching finger tips to the floor. Bend back again, touching finger tips to the wall. Repeat the movement 15 times the first day, 18 the next, 20 the next, 22 the next, and 25 times thereafter.

Each day step a little further away from the wall, gradually reaching and bending back. If you cannot touch the floor without bending your knees the first day, go down as far as you can, endeavoring to go farther each day. In a few days you will find that you can touch the floor without any difficulty.

Exercise No. 2. Breathing exercise. To expand the

lungs and for general strength. Stand erect near the open window getting unmistaken whiffs of the cool. fresh air. Hands clasped over head abdomen in, shoulders well back, chin trifle forward. Open the mouth and breathe in deep, long, drawn none is original, I do not feel that I very important to make the gasps long close the mouth, and in the exercise sical culture to improve their health, or to the side, lift them gradually, slowly, them gradually, slowly, them gradually, slowly, the side that the clossical transfer of the side, lift them gradually, slowly, them gradually, slowly, the gold in the state bank and in London, and might possibly even find matter and becoming to enthusiastic.

Exercise No. 3.

One of the best known movements for stomach troubles, at the same time

not acting as a flesh reducer. Feet and palms of hands on floor with abdomen facing the ceiling. Legs from the knee down should be perpendicular. Arms occupy a relative posishould describe the lower half of an "H," the second position describes an With the arms and legs straight straight line, "dip" up and down. Re-

Exercise No. 4.

For developing the shoulders and expanding the chest. Stand erect near the open window.

Hands closed in front level with the

eyes, elbows straight. Bring arms back

as far as the level of the eyes. Repeat Quick rub down with coarse towel. Exercise No. 5.

(For same results as No. 4.)

Arms outstretched to sides. Describe small circles rapidly until quite tired. learning sense. While several years Arms outstretched in front. Describe have intervened since I was captain of small circles in same manner. Always my college skating team—a sport that can scarcely be found on the roster of

Exercise No. 6.

Stand erect near open with chin in, shoulders to be wondered at that the men and weil back, chest slightly leaning forward; sit and rise, working more or singing organization-who are most enless on the toes. Practice this until the thusiastic s in outdoor exercise and ovements can be accomplished without falling forward or sideways.

Before forgetting it, by the way, a brisk walk, only around the block, if more time cannot be spared, breathing deep, deep, deep, Breakfast. deep, deep, deep. Breakfast.

There is another movement, or two novements, in fact, that can be substituted for No. 3, provided one wants to reduce his weight, especially around the abdomen. In one many will recognize ing" movement. If you do not believe

Exercise No. 7. For stomach troubles and for reduc-

the body; recline and repeat steadily

If one has stomach weaknesses he should "go strong" on the exercises that bring into play the muscles of the stombring into play bring into play the muscles of the stomach. Another good movement for this purpose follows:

Exercise No. 8.

For making bad stomach good-Stand erect, hands on the waist. With knees stiff, move the upper part of the body down and up. Repeat twenty-five times. that is more effective for helping indigestion and kindred complaints than proper walking in the open air. And speaking of air, in my opinion ten minutes' exercise out doors is more valuable than an hour in the "gym" or in the house. If you frequently could spend a half day walking, ricing horseback, or in the indulgence of any healthy outdoor sport, health culturists, Christian Scientists, and many of our worthy medicos would seek other channels of earning dollars-while you would be Shail circles in same manner. Always keep the elbows straight.

Shower bath or tub. Water from slightly warm to cold, as the system can stand. Brisk rub down.

Shower bath or tub. Water from college athletics today—I still have a love for this recreation, and very frequently do two Dutch numbers of our company and myself embrace the various opportunities-and pitfalls-the win-Stand erect near open window, with ter's skating ice affords. And it is not sports, are the ones who seldom or the war must entail have given the gle settles down to one so long con-

How to Walk.

The majority of people do not walk correctly, and do not get the full benefits of this delightful and cheap evercise. I agree at least on one point, with the faddists, extremists and others in the statement that most of us do not breath correctly. The surest way of correcting this defect in the automatic perfunctions of our make-up (not theatrically speaking) is to breath very deep. ly, all the time. If we throw the shoul-

work spent in a gymnasium. And it is the subject.

(this is another movement).

Hands at the side, keeping the legs stiff and flat, raise the upper part of the body, regime and repeat stradily. good, and immediately feel the result has been the same since the days Ceasar of it, than you could by one week's and Agrippo said something or other on

I have often been asked how frequently, and in what way to bathe to clean, not to get clean."

Heavy Cost of War

Slav and Oriental which is in progress in the Far East, writes Frank

Work." It is a battle between the rouble and the yen, a measuring of Slav and Ori- more than \$150,000,000, while in addition ental financial power. In the final outcome of this struggle as much may de- and possessed a balance of \$84,900,000 of

under stress as upon the fighting qualities of their warships and brigades. Give Deep Concern.

Ministers of finance have as great influence on military history as do min- is in the form of domestic loans. isters of war.

Russia, however, has great superiority kets of the world. measure of financial strength in the markets of the world.

Russia Is Strong.

T is not merely a struggle between \$525,000,000, the total gold stock of the

country having increased in the year \$90,000,000. The Imperial Bank of Russia, wholly A. Vanderlip, former Assistant Secre- owned by the government, exhibits tre

tary of the Treasury, in the "World's mendous financial strength in its present position. A statement issued a few days ago showed in round figures that the bank held cash in hand amounting to to that it held \$290,000,000 of gold bonds, pend upon the strength which the treasuries of the two countries will develop side of Russia.

Many Domestic Loans.

Japan's debt is but little more than a fraction of Russia's. Its total was, before the impending domestic issue, \$50,-000,000. By far the greater part of that

In this Russian-Japanese struggle it however, Japan will need funds from is certain that the expenditures which outside her own realm; and if the struggreatest concern to the finance ministers tinued that the question of national credit becomes of the very first importance, as it may, Japan must be in the The credit of neither has been the end at great disadvantage in any con highest in the world's financial centers. petition with Russia in the money mar-

Czar Is the Strongest. Taking it all in all. Russia's superiority from a financial point of view must

be clearly admitted. whatever differences there may be regarding the moot question of annual deficits, there can be no denying the enormously strong position in which Russia finds herself today if she is to stand the strain of long-continued war expenditures.

The difficulties of her finance minister will be less than will the difficulties of the Japanese treasury, but Japan can count upon great national enthusiasm at home which will provide at first for her financial products. her financial needs, and she will be able expenditures.

The accounts show that with the closundoubtedly at some price to float bonds and show that with the clos-